

**M.C.A. SEM – IV
MCA-44 : Networking – II**

Teaching Scheme (per week)		Examination Scheme					
		INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
4	--	30	--	70	--	100	--

(Networking and DBA)

UNIT I (25%)

Introduction to Windows 2000 : Windows 2000 Operating System: New features, Windows 2000 – Professional, Server, Advanced Server, Datacenter Server, Windows 2000 User Interface, Application Environments and Architecture, Components in Control Panel. **Active Directory:** Its features, Structure of Active Directory, Implementation of Active Directory, Planning for Active Directory on your network. **File Systems and Disks:** FAT, FAT32, NTFS, Converting FAT or FAT32 to NTFS, Disk types, Partition Types Volume Types, Disk Management.

UNIT II (25%)

Managing and Securing Resources :Securing Active Directory, Managing Users and Groups, System Policies and Groups Policies, Sharing, Securing and Accessing Files and Folders.**Backup and Recovery:** Backing up User Data and System State Data, Backup Types, Backup Strategies, Scheduling Backups, Recovering Users and System State Data, Recovering from System failure.**Creating and Configuring Network and Dial-up Connections:** Creating Connections, Installing and Configuring Modems, Creating Dialup Connection to the Internet, Creating Connections to Other Computer, VPN Connection.

UNIT III (25%)

Database Administration - I (DBA with Oracle8i) : Oracle8i Overview and Architecture: Instance and Database, Database File Structure, Memory Architecture, Process Architecture. **Database Password file:** Connecting as an Administrator User, Creating Password File, Managing Administrative Users, Deleting Password File, Rebuilding Password File. **Net8 :** The Net8 Oracle Networking Software, Net8 server and client components, Configuring Net8 on the server and client. **Database Space Management:** Managing Storage Space, Allocating Space, Estimating Space Requirements.

UNIT IV (25%)

Database Administration – II : SQL*Plus and Server Manager: Use of SQL*Plus to Enter and Execute SQL Statement, to Generate Reports and to write Script. **Managing Users and Security:** Creating User, Granting Role and Privileges to Users, Creating Roles. **Backup and Recovery:** Running in ARCHIVELOG Mode, Backing Up a Database, Testing the Integrity of Backup Files, Restoring NOARCHIVELOG Mode Database. Export and Import Utility, Overview of WebDB, Architecture of WebDB site, WebDB Components.

Reference Books:

1. MCSE 4-in-1 Study System, by Alan R. Carter, 1st Edition, IDG Books India Publication.
2. Oracle8i DBA Bible, by Janathan Gennick, Carol McCullough-Dieter and Gerrit-Jan Linker, WILEY-dreamtech Publication.

Question Paper Scheme:

Section – I

Section – II

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| Q.1 - Objective Type Unit I & II (11) Marks | Q.4 - Objective Type Unit III & IV | (11) Marks |
| Q.2 - Unit-I OR Q.2 Unit-I (12) Marks | Q.5 - Unit-III OR Q.5 Unit-III | (12) Marks |
| Q.3 - Unit-II OR Q.3 Unit-II (12) Marks | Q.6 - Unit-IV OR Q.6 Unit-IV | (12) Marks |